

**Request to Archive
With The National Centers for Environmental Information
For NOAA Global Multisensor Automated Snow/Ice map, Northern Hemisphere and
Southern Hemisphere
Provided by IDPS**

2014-10-02

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

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2. Name the organization or group responsible for creating the dataset.

JPSS IDPS

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

1. Name and ID of data type(s)?

NOAA Global Multisensor Automated Snow/Ice map, Northern Hemisphere (CSN: NOAA-AUTOSNOW-NH-ANC,
Type: ODAD, Group: NP_ODAD)

NOAA Global Multisensor Automated Snow/Ice map, Southern Hemisphere (CSN: NOAA-AUTOSNOW-SH-ANC,
Type: ODAD, Group: NP_ODAD)

2. Brief abstract describing the data type(s)?

The NOAA NESDIS Office of Satellite and Product Operations (OSPO) operationally produces daily global (Northern Hemisphere and Southern Hemisphere) maps from combined snow/ice retrievals with several satellite sensors operating in the visible/infrared and in the microwave spectral band. Observations from both polar orbiting and geostationary satellites are incorporated. Since December 2010, the snow/and ice mapping system processes and uses observations from the following sensors: METOP AVHRR, MSG SEVIRI, GOES-E and GOES-W Imagers, and DMSP SSMIS .

The Northern Hemisphere map grid is a 20250000-point (9000 longitude x 2250 latitude) hemispheric equal angle (0.04 degree) longitude-latitude grid. Position (1, 1) is located at (180W, 90N) increasing Easterly and Southerly. The map is stored in the binary file in column-major order. It is single-byte, non-bit field data, and therefore byte-order agnostic.

The Southern Hemisphere map grid is a 202500-point (9000 longitude x 2250 latitude) hemispheric equal angle (0.04 degree) longitude-latitude grid. Position (1, 1) is located at (180E, 0N) increasing Easterly and Southerly. The map is stored in the binary file in column-major order. It is single-byte, non-bit field data, and therefore byte-order agnostic.

3. Justification including intended use and users?

Use: Regeneration of tiled ancillary snow/ice data

Users: S-NPP / JPSS data users attempting to fully replicate processing of the IDPS snow/ice map

4. Group responsible for creating the data?

NOAA NESDIS OSPO (NOAA National Ice Center)

5. Identify related product documentation?

The ATBD for the product is located at URL

http://www.star.nesdis.noaa.gov/smcd/emb/snow/documents/Global_Auto_Snow-Ice_4km_ATBD_February_2014.pdf

Additional information on product validation is available at URL

<http://www.star.nesdis.noaa.gov/smcd/emb/snow/HTML/snow.htm>

6. From where are data distributed in Block 1.2 and from where will it be distributed in Block 2.0?

For the purposes of CLASS archiving, the data will be delivered from the S-NPP IDPS Operation String at the NSOF for both Block 1.2 and 2.0 (same as for other JPSS Program ODAD).

7. Operational file frequency and data volume rate?

Frequency: 2 files daily (one for Northern Hemisphere, one for Southern Hemisphere)

Data Volume Rate: Each file is approximately 19.3 MiB, so the total data volume rate would be approximately 38.6 MiB / day.

8. Beginning date for files?

The IDPS Mx 8.6 build, which implements support for gridding the source data and utilizing the gridded data in the VIIRS Snow/Ice gridding algorithm, is scheduled to transition-to-operations no later than October 24, 2014. The beginning date for archiving the source files to CLASS should therefore be no later than October 24, 2014.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2014-10-24

Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

N/A

6. Approximate date when the dataset was or will be released to the public:

2014-10-24

7. Who are the expected users of the archived data? How will the archived data be used?

JPSS VIIRS Calibration/Validation users and Field Terminal Users utilizing Direct Readout.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

Produced by NOAA NESDIS OSPO - review/evaluation is assumed to have been performed as part of standard NOAA lifecycle processes.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

This is a new Official Dynamic Ancillary Dataset for JPSS. It does not replace or eliminate any existing archived JPSS dataset.

10. List the input datasets and ancillary information used to produce the data.

Dataset is produced by NOAA NESDIS OSPO (NOAA National Ice Center)

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11. List web pages and other links that provide information on the data.

Additional information on product validation is available at URL

<http://www.star.nesdis.noaa.gov/smcd/emb/snow/HTML/snow.htm>

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. The ATBD for the product is located at URL

http://www.star.nesdis.noaa.gov/smcd/emb/snow/documents/Global_Auto_Snow-Ice_4km_ATBD_February_2014.pdf

13. Indicate the data file format(s).

1. binary

14. Are the data files compressed?

No

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

Files are formatted and named according to standard Official Dynamic Ancillary Data (ODAD) from JPSS as

documented in the Common Data Format Control Book, Vol I (Overview). CLASS is currently archiving JPSS ODAD data that follows this format convention.

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

See links provided to National Ice Center to obtain sample data

17. What is the total data volume to be submitted?

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 38.6MB per Day

Data File Frequency: 2 per Day

Data Production Start: 2014-10-24

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

This product is produced daily and is thus in the category of Dynamic Ancillary Data

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: NOAA NSOF Suitland, MD

System Name: JPSS IDPS

System Owner: JPSS Program

Additional Information: New data will be provided as per current interfaces between JPSS IDPS and CLASS for Dynamic Ancillary Data

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

ftp-s

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

This data is necessary for archive to allow cal/val users in particular to be able to re-run JPSS data for science analysis after the data is no longer provided by the National Ice Center.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

Yes, Steve Milinovich at CLASS is a member of the JPSS Data Engineering Working Group which has addressed the addition of this new product to CLASS.

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

JPSS program

29. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by: 2014-10-24

Accessible by: 2014-10-24

30. Add any other pertinent information for this request.

None